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01661470 **Image available**
SHAFT-SEAL APPARATUS FOR GEAR BOX

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ABSTRACT

PURPOSE: To reduce the frictional resistance between a cylinder and an oil seal by fitting the cylinder onto a helical gear formed onto a rotary shaft and arranging the oil seal onto the outer periphery of the cylinder and installing a lubricant supplying means for the oil seal onto the cylinder.

CONSTITUTION: A rotary **shaft** 1 is supported through a **bearing** 4 onto the side wall 2 of a gear box, and a helical gear 3 is cut at the position close to the inside of the gear box, on the rotary **shaft** 1, and a cylinder 9 is fitted onto the cutting-up part 7. An oil **seal** 5 is arranged in slidable ways onto the outer peripheral surface of the cylinder 9. A hole 10 as the lubricant supplying means for the oil **seal** 5 is formed onto the cylinder 9, and the inside and the outside of the cylinder 9 are allowed to communicate between the teeth of the gear 3. Therefore, lubricant can be supplied through the hole 10 onto the **lip** 8 of the oil **seal** 5, independently of the direction of inclination of the helical gear 3 and the direction of revolution of the rotary **shaft** 1, and the frictional resistance between the **lip** and cylinder 9 can be reduced.

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